

Amendments to the Claims

1. (currently amended) A dielectric barrier discharge lamp having

- a discharge vessel, the wall of which encloses a discharge medium,
- a set of electrodes for generating dielectric barrier discharges in the discharge medium, with a dielectric barrier action in respect of at least some of the set of electrodes,
- a phosphor mixture, which is applied to part of the wall of the discharge vessel,
- ~~a~~the phosphor mixture comprising the following phosphor components:

R: (Y,Gd)BO₃:Eu,

G: LaPO₄:(Tb) or LaPO₄:(Ce,Tb),

B: BaMgAl₁₀O₁₇:Eu

whereby

the following applies to the proportions by weight formed by the phosphor components ~~G~~R, G, B in the mixture:

$$0.05 \leq R \leq \del{0.15} \underline{0.08}, 0.50 \leq G \leq 0.70, 0.20 \leq B \leq 0.40 \text{ and } R+G+B=1.$$

2. (currently amended) The dielectric barrier discharge lamp as claimed in claim 1, in which the following applies to the proportions by weight in the mixture:

$$0.06 \leq R \leq \del{0.12} \underline{0.08}, 0.58 \leq G \leq 0.66, 0.25 \leq B \leq 0.35 \text{ and } R+G+B=1.$$

3. (original) The dielectric barrier discharge lamp as claimed in claim 1, in which the discharge vessel contains xenon as discharge medium.

4. (original) The dielectric barrier discharge lamp as claimed in claim 3, in which the xenon filling pressure is in the range between 50 and 200 mbar.

5. (original) The dielectric barrier discharge lamp as claimed in claim 3, in which the xenon filling pressure is in the range between 100 and 150 mbar.

6. (previously presented) The dielectric barrier discharge lamp as claimed in claim 1, in which the discharge vessel is formed to be flat and comprises a back plate and a front plate for the light to emerge, which is at least partly transparent to light.

7. (previously presented) The dielectric barrier discharge lamp as claimed in claim 1, in which the discharge vessel is tubular.

Claim 8 (canceled).

9. (original) The dielectric barrier discharge lamp as claimed in claim 8, in which the set of electrodes comprises two or more elongate electrodes which are arranged on the wall of the discharge vessel.

Claims 10-12 (canceled).

13. (new) The dielectric barrier discharge lamp as claimed in claim 1, in which the following applies to the proportions by weight in the mixture: $R=0.08$, $G=0.62$ and $B=0.30$.

14. (new) The dielectric barrier discharge lamp as claimed in claim 1, in which the lamp exhibits a color temperature of 10,000 K or above.

15. (new) The dielectric barrier discharge lamp as claimed in claim 1, in which the lamp exhibits a color temperature of 20,000 K or above.

16. (new) The dielectric barrier discharge lamp as claimed in claim 1, in which the lamp exhibits a color temperature of 30,000 K or above.

17. (new) The dielectric barrier discharge lamp as claimed in claim 1, in which the lamp exhibits a color temperature of 40,000 K or above.